February

MEETINGS ARE OPEN TO ALL GROWERS

THE MARYLAND Fruit Grower

Official Program Number

THIRTY-NINTH ANNUAL MEETING

...of...

The Maryland State Horticultural Society

JANUARY 5, 6, 7, 1937

HOTEL ALEXANDER
Hagerstown, Maryland

Vol. 6 December, 1936 No. 12

ROSY APHIS

and other aphis eggs

Are Best Controlled

by Fall Spraying with

STRAITAR or TAR-O-WASH

Straitar contains 85% of emulsified tar oils of highest quality, from which the undesirable tar acids have been removed. It contains no lubricating oil. Tar-o-wash contains 37% of the same high quality tar oils and 46% highly refined lubricating oils for red mite and scale control as well as aphis.

Plan this spray now. Get the jump on the aphis for this season. Spring spraying can be done, but the Fall application is more certain, according to Experiment Station recommendation.

Prices of Straitar and Tar-o-wash are still low, but as many raw materials continue to advance, it is doubtful if they will ever be sold as cheaply for years to come. Advances may be necessary before spring.

Let us quote you and refer you to our nearest stock. Please address Dept. "F".

B. G. Pratt Company

50 Church Street **New York, N. Y.**

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THE MARYLAND Fruit Grower

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Hagerstown, Maryland

Vol. 6 December, 1936 No. 12

Leading Orchardists Prefer

HARRISON GROWN FRUIT TREES

More Vigorous -:- True to Name

Earlier to Bear

Propagated From Bearing Trees of Superior Strains and Extra Heavy Bearing Habits

NEW LEADERS OF THE FRUIT INDUSTRY

• • •

RIO OSO GEM—World's largest peach—ripens two weeks after Elberta — yellow freestone — highest quality. Marvelous long distance shipper. U. S. Plant Patent No. 84.

RED YORKING—The triple red, earlier coloring York Imperial, colors few weeks earlier, bearing habit as good or better than the regular York. U. S. Plant Patent No. 125.

A full selection of apple, peach, pear, plum, cherry, apricot, nectarine trees, as well as small fruits, asparagus, shade trees, hedge plants, evergreens, shrubs, roses, etc., at money saving prices.

• ● •

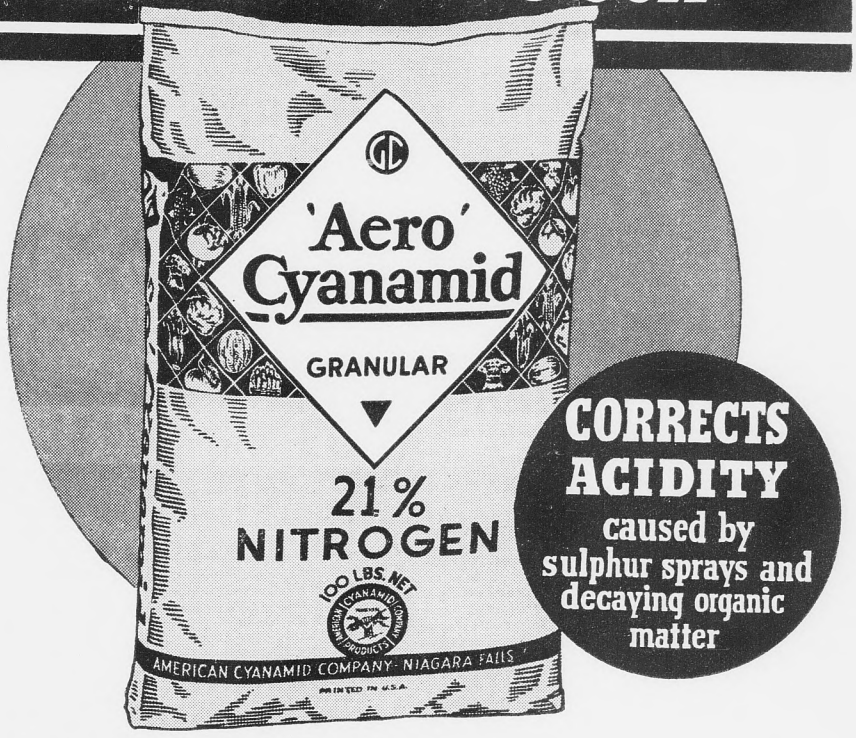
WRITE FOR PRICES

Harrison's Nurseries, Inc.

Est. 1884 **BERLIN, MARYLAND** 52 Years

-:- AMERICA'S OUTSTANDING NURSERIES -:-

The NITROGEN FERTILIZER *that Feeds the Tree and Limes the Soil*



CORRECTS ACIDITY caused by sulphur sprays and decaying organic matter

Ask for Leaflet F-142

. . . . which tells you more about this NON-LEACHING, HIGH-NITROGEN, HIGH-LIME, GRANULAR FERTILIZER, and how to use it in growing . . . . bigger yields of better-quality fruit.

AMERICAN CYANAMID COMPANY

30 ROCKEFELLER PLAZA - - NEW YORK, N. Y.

Leading Orchardists Prefer

HARRISON GROWN FRUIT TREES

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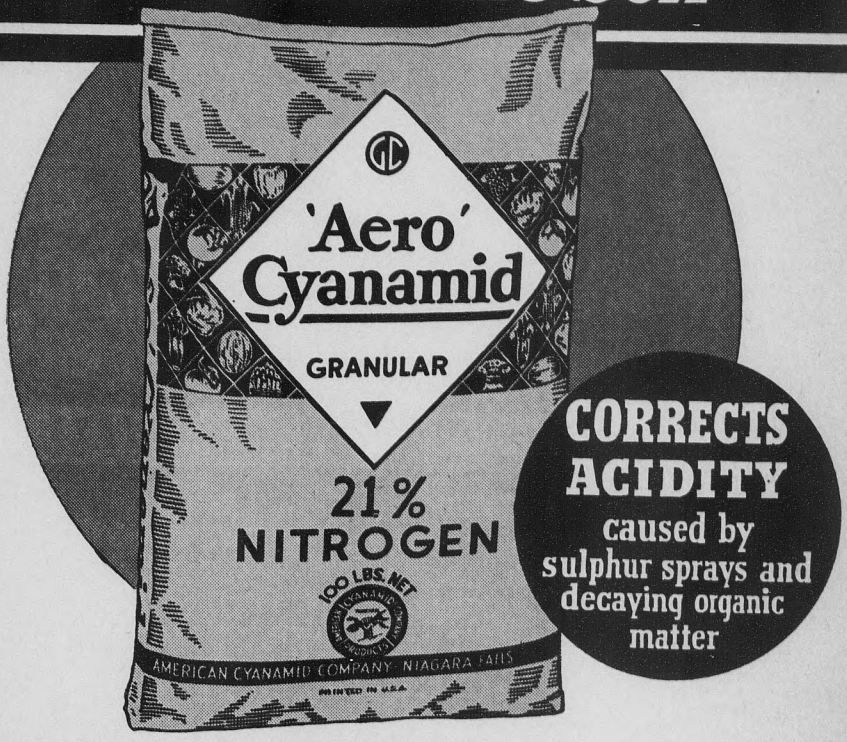

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AMERICAN CYANAMID COMPANY

30 ROCKEFELLER PLAZA - - NEW YORK, N. Y.

Program

• ● •

THIRTY-NINTH ANNUAL MEETING

The Maryland State Horticultural Society

Hotel Alexander, Hagerstown, Maryland

Tuesday, Wednesday and Thursday, January 5, 6, and 7, 1937

Meetings Beginning Tuesday, January 5, at 1:30 P. M.
All Meetings in the Ballroom of the Hotel Alexander

TUESDAY AFTERNOON, JANUARY 5th

1:30 P. M.

Call to Order—President C. E. Bryan, Havre de Grace, Maryland.
Report of the Secretary-Treasurer—A. F. Vierheller, College Park, Md.
President's Annual Address—C. E. Bryan, Havre de Grace, Maryland.

2:00 P. M.

Diagnosing the Lack of Fertilizer Elements for Orchard Trees—J. H. Weinberger, Assistant Pomologist, U. S. Horticultural Field Station, Beltsville, Md.

3:00 P. M.

Present Equipment and Methods for Effective and Safe Washing of Eastern Apples—D. F. Fisher, Principal Horticulturist, U. S. Horticultural Field Station, Beltsville, Maryland.

4:00 P. M.

Inspection of Exhibits.

TUESDAY NIGHT PROGRAM ON PAGE 8

Annual Dinner Wednesday Evening—Get Your Tickets

Exhibits of general orchard supplies, spray materials, packing materials, fertilizers, etc., will be shown in the Sample Room of the Hotel, located on the ground floor.

Educational exhibits, fruit variety show, etc., under auspices of the University of Maryland Experiment Station and Extension Service will be found on the Mezzanine Floor of the Hotel.

Time of the various discussions as shown in the program is not exact. Be on time to avoid missing any of the program features.

McCormick - Deering

ORCHARDS TRACTORS

AND

TRAC TRAC TORS

WITH

ORCHARD TOOLS

for Better Orchards

SOLD AND SERVICED EVERYWHERE

by

McCormick - Deering Dealers

International Harvester Company

of AMERICA

BALTIMORE, MARYLAND

Genuine **IHC** *Repairs*

-:- EVERYTHING FOR THE ORCHARD -:-

Our Best Wishes

...to...

Maryland Fruit Growers

...for a...

HAPPY HOLIDAY SEASON

FINE CONVENTION

PROSPEROUS YEAR 1937

We offer our best services
toward that end.

• ● •

TYSON ORCHARD SERVICE

EDWIN C. TYSON

FLORA DALE, PENNA.

OUR SPECIALTIES

"Latimer Dry" Lead—Pratt's Oils—Wettable Sulphurs
"Cod-o-cide" Tree Bands—Treeseal—Atlacide
Clark Waxes—Disston Saws—M&G and IXL Knives
Tiffany—Porter—Seymour-Smith and W & W Pruners
Wayland Graders—Washers—and Dryers
Babcock Ladders—Goodrich and Goodyear Hose
Rice, Trew & Rice Packing Supplies

-:- EVERYTHING FOR THE ORCHARD -:-

Wholesale and Retail

« LEADERS »

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KOLODUST

KOLOTEX

KOLOKIL

KOLOFOG

KOLOFOG (PRE-HARVEST)

SUSPENSO LEAD ARSENATE

CAL-RITE

EMULSO

POMO-GREEN

KOLO ROTENONE

COPODUST

COPOTEX

• ● •

Niagara Sprayer and Chemical Co., Inc.

Middleport, N. Y.

• RTR •

Paper Packing Supplies

. . .

Try the

RTR BASKET CUSHION

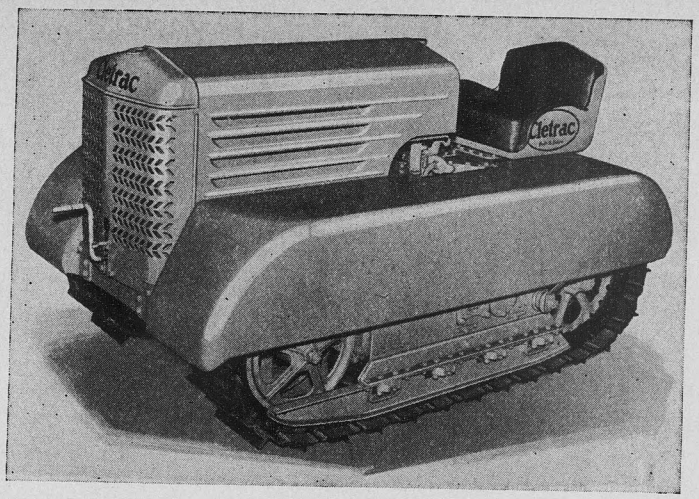
. . . and learn

why so many apple and peach packers use them.

. . .

RICE, TREW & RICE CO.

BIGLERVILLE, PENNA.



The CLEVELAND TRACTOR Company

Announces a New and Better Crawler Tractor

For the FRUIT GROWER

Designed by a world famous crawler tractor engineer who knows and understands the fruit grower's problems.

Only 55 inches total height, yet greater clearance underneath and full vision forward. Low center of gravity to work on steepest hill-sides; narrow over-all width; clean cut, and streamlined to slip through closely planted orchards without damage to fruit or trees.

Controlled Differential Steering with full power on the turns.

A *CRAWLER* tractor really designed from the ground up, to operate efficiently winter or summer, in mud, sand or rocks, on the hills or on the level.

See your local dealer who will be glad to arrange for a demonstration in *your* orchard.

Cletracs are powered with high compression motors using regular 70 octane gasoline; or with Kerosene or iesel Motors. 22 to 94 Horsepower.

THE CLEVELAND TRACTOR COMPANY

CLEVELAND, OHIO

WRITE FOR BOOKLET GIVING FACTS ABOUT CLETRAC

THE CLEVELAND TRACTOR COMPANY,
19300 Euclid Avenue, Cleveland, Ohio

Send me your fully illustrated and detailed broadside covering all uses of your Streamlined Orchard Model.

*Name*_____

*Address*_____

*We farm*_____ *Acres*_____

PROGRAM—*Continued*

TUESDAY NIGHT, JANUARY 5th
7:00 P. M.

Can the June Drop of Fruit Be Controlled by the Grower?—Laurenz Greene, Head, Department of Horticulture, Purdue University, Lafayette, Indiana.

8:00 P. M.

Detail Pruning to Assist in the Production of Better Apples—A. L. Schrader, Head, Department of Horticulture, University of Maryland, College Park, Maryland.

WEDNESDAY MORNING PROGRAM ON PAGE 12

Annual Dinner Wednesday Evening—Get Your Tickets

The Society welcomes new members. Annual dues are but one dollar a year, for which members receive the Annual Proceedings, and the "Maryland Fruit Grower", the printed news-letter. The Society holds an annual summer field meeting, in addition to the annual winter meeting. You should become a member.

HYDRATED LIMES
THREE RELIABLE UNIFORM TIME-TESTED BRANDS

"LIMOID" "MERION" "KNICKERBOCKER"
(SHIPPED IN STANDARD TIGHT 50 LB. PAPER BAGS)

ORDER THEM BY NAME
FOR ALL LIME-NEEDY CROPS

•

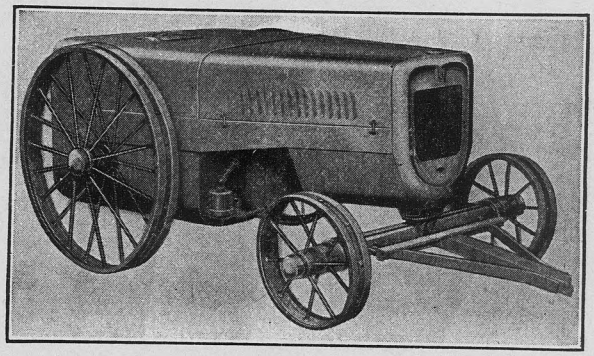
USE "BELL-MINE" HYDRATED
WHEN "QUICK-LIME" IS SPECIFIED
FOR SPRAYS AND BORDEAUX MIXES

•

WARNER COMPANY
WILMINGTON, DEL. PHILADELPHIA, PA.

BEAN PRODUCTS
for
Orchards and Crops

The finest yet most reasonably priced equipment that money can buy for spraying, dusting, grading, cleaning, or washing. Equipment of the most modern design built to render efficient money saving service.



The Bean Royal Armored Sprayers have earned a reputation for greater efficiency and effectiveness—practically no troubles and long life that every grower desires in his sprayer.

Bean Sprayers are built in a range of sizes from 6 to 60 gallons at pressures up to 800 pounds. Some where in this range of sizes is a sprayer that will exactly meet your needs and give you better service than you have ever had before—yet the price will be within the limits of the investment you will make in a sprayer.

We suggest that when you need a sprayer, grader, or cleaning equipment that you consult us and get literature describing the latest equipment for this work. In doing so you will be protecting any investment you may make.

• • •

JOHN BEAN MFG. CO.

DIVISION FOOD MACHINERY CORPORATION
LANSING, MICHIGAN

BUY NOW!—HAVE IT WHEN YOU NEED IT!

FRUIT TREES

As Fine As They Can Grow

PEACH - APPLE - CHERRY - APRICOT
PEAR - PLUM - QUINCE

▪ ▪ ▪

FINEST OF NORWAY MAPLE
HEDGE PLANTS - SHADE TREES
NUT TREES

▪ ▪ ▪

RASPBERRIES - BLACKBERRIES
CURRANTS - GOOSEBERRIES
ASPARAGUS

▪ ▪ ▪

ADAMS COUNTY NURSERY & FRUIT FARMS

H. B. BAUGHER, Proprietor

ASPERS, PENNSYLVANIA

F. A. READ, INC.

WINCHESTER, VA. ALBION, N. Y.

Manufacturers

CORRUGATED CAPS CUSHIONS

BASKET LINERS TREE BANDS

Shipments by Truck or Carload

• ● •

PLANTERS MANUFACTURING CO., INC.

PORTSMOUTH, VIRGINIA

Manufacturers

FRUIT AND VEGETABLE PACKAGES

Warehouses in principal growing sections

• ● •

G. "MOSE" PARKINS

Factory Representative for Above Firms

MARTINSBURG, WEST VIRGINIA

Visit Our Exhibit at the Hagerstown, Maryland, Meeting

PROGRAM—*Continued*

WEDNESDAY MORNING, JANUARY 6th
9:30 A. M.

Spray Injury Discussion. Recent Experiments to Prevent Spray Injury in Virginia, Pennsylvania, West Virginia and Maryland—

W. S. Hough, Entomologist, Winchester Field Laboratory, Winchester, Virginia.

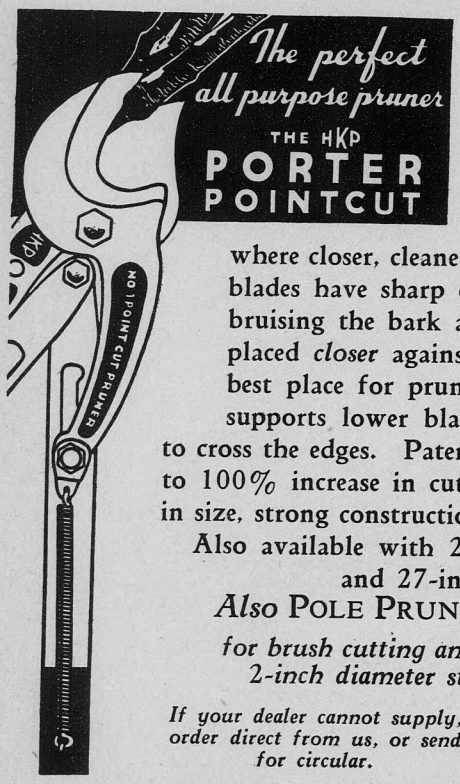
H. W. Thurston, Associate Professor of Plant Pathology, Pennsylvania State College, State College, Pennsylvania.

F. J. Schneiderhan, Associate Pathologist, West Virginia Experiment Farm, Kearneysville, West Virginia.

H. S. McConnell, Associate Professor of Entomology, University of Maryland, College Park, Maryland.

WEDNESDAY AFTERNOON PROGRAM ON PAGE 20

Annual Dinner Wednesday Evening—Get Your Tickets



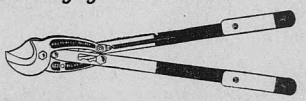
Cuts suckers *on the point* with small handle opening. Cuts 1¼-inch limbs *in throat* of blades, with full handle opening. Designed especially for fruit, nursery and horticultural use—where closer, cleaner pruning is desirable. Both blades have sharp cutting edges which prevent bruising the bark and permit the blades to be placed *closer* against the main branch and the best place for pruning. Spur on upper blade supports lower blade and resists the tendency to cross the edges. Patented slide shift gives a 50% to 100% increase in cutting power. Light, handy in size, strong construction. Sells for $5.00.

Also available with 24-inch handles at $5.10 and 27-inch at $5.20.

Also POLE PRUNERS *and* FORESTERS

for brush cutting and heavy pruning up to 2-inch diameter standing green wood.

If your dealer cannot supply, order direct from us, or send for circular.



H. K. PORTER, INC., EVERETT, MASS.

The Bolt Clipper People—Established 50 Years

Vertical crankshaft driven pump with long connecting rods avoiding side-thrust.

All important parts are separate units easily accessible and economically replaced.

Volumetric pump efficiency 96% to 99%—highest in the industry.

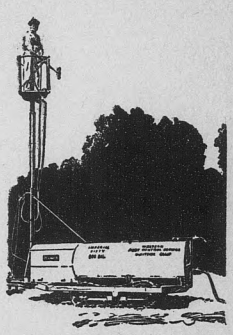
Delivers full rated capacity and pressure easily all the time at slow speed.

Individual selective lubrication with clean oil for every moving part.

Fully lubricated plunger and cup. A feature not found in any other pump.

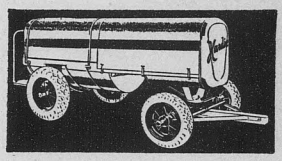
Roller bearing trucks. Interchangeable steel or wood tanks.

How Hardie Leadership Serves the Grower

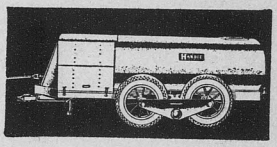


Progress in the sprayer industry is always seen first in a Hardie. Hardie owners are the first to enjoy the new features making for more convenience, better syraying and lower costs. Growers with extraordinary problems look to Hardie for sprayers to meet unusual and difficult spraying tasks. Growers everywhere measure sprayer efficiency by Hardie standards.

To realize how completely Hardie design and construction meet today's needs, compare a Hardie spray pump with any other pump of any given rating. Notice how much larger, stronger and better is the Hardie frame, base and bearings; how much higher is the quality of materials used; how well-balanced, compact and accessible is the assembly. The almost unbelievably low maintenance cost of a Hardie is the direct result of superior design and construction. Forty models and sizes, meeting every requirement in orchard, grove and field.



Hardie sprayers are really streamlined. They move without damage to trees or fruit, and avoid delays of stopping to untangle branches.



Those interested in tractor trailer outfits will be attracted by the new Hardie Crawler and Tandem type trucks which make feasible the use of far larger tanks than ever before.

Write for catalog.

THE HARDIE MANUFACTURING CO.
HUDSON, MICHIGAN
Sales and Service: H. V. Hart Co.
Hagerstown, Md.

Branch Factories, Sales and Service Offices
Portland, Ore.; Los Angeles, Calif.; Kansas City, Mo.; Brockport, N. Y.; New York City
Export Dept.: Detroit, Michigan

HARDIE
DEPENDABLE SPRAYERS

DELAY DOES NOT PAY—BUY NOW!

COSTS DOWN--QUALITY UP

DAVCO PRODUCTS LEAD THE WAY

TAROCIDE....GRO-ALL 83% OIL EMULSION

POMO FOOD...GRANULATED FERTILIZER

40 FACTORIES IN 12 STATES

ESTABLISHED IN 1826

CENTRAL CHEMICAL DIVISION

THE DAVISON CHEMICAL CORPORATION

BALTIMORE, MD.

To The Apple Growers

OF

MARYLAND

AND THE MEMBERS OF

THE MARYLAND STATE
HORTICULTURAL SOCIETY

Greetings

And our best wishes for a successful
year with the 1937 apples

FRED C. STRYPE

SUNSET OILED PAPER

here's real NEWS!

A scab-controlling, non-russet, non-injurious-to-foliage spray combination

WETTABLE DRY LIME SULFUR WITH 325 MESH SULFUR

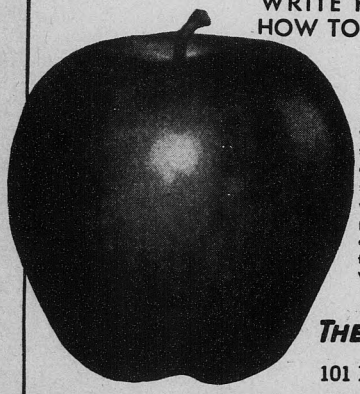
(PATENT APPLIED FOR

A New, Economical Way To Make Sulfur Wettable

It's real news to be able to announce the most economical, effective and safe summer spray for apples ever devised—Sherwin-Williams Dry Lime Sulfur with 325 Mesh Sulfur—Wettable. This combination does away with the use of wettable sulfurs using Dry Lime Sulfur as the wetting agent, which in itself is a most effective fungicide. You can mix it yourself in your own spray tank and secure a scab-controlling, non-russeting, non-injurious-to-foliage combination which spreads uniformly and adheres tenaciously to fruit and foliage. There's news too—GOOD NEWS—in the added fact that this new combination will cut your summer fungicide spray bill ONE-THIRD by doing away with the use of expensive wettable sulfurs.

THIS SPRAY SCHEDULE ASSURES
FINE FINISH—FINE COLOR—HEALTHY FOLIAGE

This newly devised combination—Sherwin-Williams Dry Lime Sulfur with 325 Mesh Sulfur—Wettable—protects your crop against scab, against the risk of russeting from the use of Liquid Lime Sulfur, against foliage injury—and cuts the cost of expensive wettable sulfurs one-third; assures you of A-Grade Apples of Fine Finish and Fine Color.



WRITE FOR FOLDER TELLING HOW TO CUT YOUR SPRAY BILL 1/3

Announcement of this Dry Lime Sulfur-325 Mesh Sulfur combination is such real news that we urge you as a practical commercial grower to write at once for the special folder which tells you how this combination mixes, sprays and sticks, to reduce your summer scab control spray bill one-third by actual comparison of costs with old-time use of expensive wettable sulfurs. Study the Micro-Camera Proof presented on the opposite page—then write at once for full details of this new, economical way to make 325 mesh sulfur wettable with Sherwin-Williams Dry Lime Sulfur.

THE SHERWIN-WILLIAMS CO.
Insecticide Department
101 Prospect Ave. Cleveland, Ohio

THE SHERWIN-WILLIAMS CO.
DRY LIME SULFUR-325 MESH SULFUR
1937 SPRAYING SCHEDULE

No Scab	No Russet	No Foliage
Pre-Pink and Pink	3 lbs. Dry Lime Sulfur 5 lbs. 325 mesh Sulfur	
Calyx	2 lbs. Dry Lime Sulfur 4 lbs. 325 mesh Sulfur	
Additional Applications	1 lb. Dry Lime Sulfur 4 lbs. 325 mesh Sulfur	

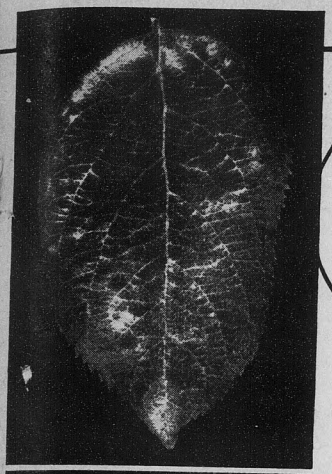
THESE DILUTIONS ARE PER 100 GALLONS OF WATER

1 part Dry Lime Sulfur will make wettable 4 parts of 325 mesh Sulfur.

Add 3 lbs. of Sherwin-Williams Arsenate of Lead to each 100 gallons of spray when necessary.

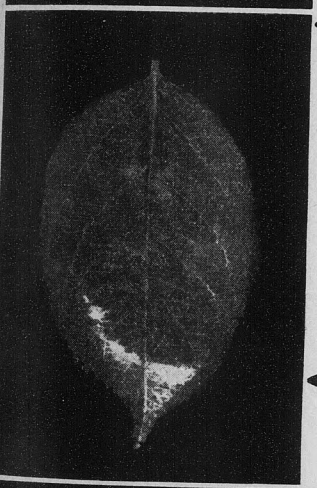
SHERWIN-WILLIAMS SPRAY AND DUST MATERIALS

The MICRO-CAMERA tells the story



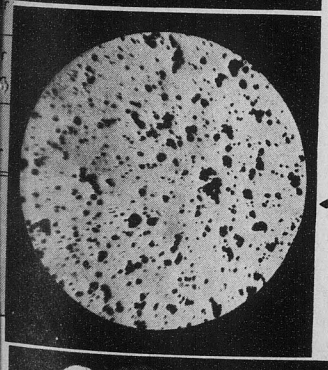
Cortland apple leaf sprayed with 2 pounds of Dry Lime Sulfur and 8 pounds of 325-mesh sulfur to 100 gallons of water Note heavy, uniform deposit of colloidal, flocculated sulfur.

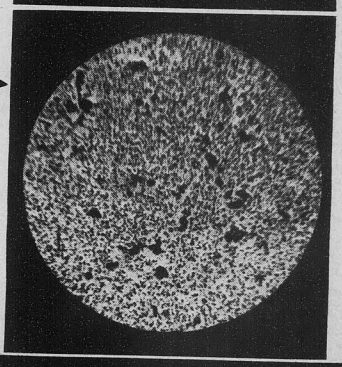
Cortland apple leaf sprayed with 10 pounds of 325-mesh wettable sulfur alone to 100 gallons of water Note uneven, thin distribution of sulfur.



Same leaf as shown above after ½ inch rain. Note good coating of sulfur still remaining.

Same leaf as shown above after ½ inch rain. Note heavy run-off of sulfur, leaving the surface unprotected.





Micro-photograph of surface sprayed with 2 pounds of Dry Lime Sulfur and 8 pounds of 325-mesh sulfur to 100 gallons of water. The Dry Lime Sulfur in this combination has flocculated the sulfur and has also acted as a "tooth," holding the sulfur particles tenaciously to the surface.

Micro-photograph of surface sprayed with 10 pounds of 325-mesh wettable sulfur alone to 100 gallons of water Note uneven distribution of sulfur particles and large unprotected area due to poor adhesive qualities.

This new Dry Lime Sulfur-325 Mesh Sulfur combination will actually deposit more than 3 times as much elemental sulfur per square inch of apple and leaf surface—as the average wettable sulfur used alone.

SHERWIN-WILLIAMS
SPRAY AND DUST MATERIALS

"CATERPILLAR"

TRACTORS

And Full Line of Implements

"BEAN"

The Sprayer Built Up To a Standard, Not Down To a Price

JOHN DEERE

TRACTORS

And Full Line of Farm Machinery

Lupton Orchard Service Co.

Right At Your Door
But You Can Phone Us At 1100
WINCHESTER, VA.

Virginia's Largest Growers of FRUIT TREES

Offer a complete assortment of apple and peach in the newer and better varieties. Also miscellaneous fruits, as well as ornamentals. Outstanding among the new varieties we call your special attention to **YORKING** (the York supreme) propagated and sold under U. S. Patent No. 125. So far this season we have sold twice as many Yorking trees as any other variety. Our supply available for Spring '37 delivery is limited, so do not delay placing your order.

OTHER OUTSTANDING NEW VARIETIES

NEW RED DELICIOUS
NEW RED STAYMAN
NEW RED JONATHAN
TURLEY
RED ROME
RED DUCHESS

We expect to have available for Spring '37 our usual supply of one and two year Apple in various sizes and quantities, and at reasonable prices. Send us your planting list for quotations.

PEACH

While Peach Trees throughout the United States have been reported not so plentiful as in other years, we have a prospect of our usual supply in the following varieties:

Alton
Belle of Georgia
Brackett
Carman
Champion
Crawford's Early
Crawford's Late
Early Elberta
Early Rose
Elberta
Golden Jubilee
Greensboro
Hale
Heath Cling
Hiley
Indian
Krummel
Mayflower
Mikado
Red Bird
Rochester
Salway
Shipper's Late Red
Slappy
South Haven
Stump
Valiant
Vedette

MISCELLANEOUS FRUITS

Other than Apple and Peach, we offer a large assortment of:

Cherry
Pear
Plum
Quince
Apricot
Nectarine
Grape
Fig
Strawberries
Raspberries
Blackberries
Youngberries

We will gladly furnish New Catalogue or have a representative call and quote on your planting requirements.

Waynesboro Nurseries, Inc.

Waynesboro, Virginia

PROGRAM—*Continued*

WEDNESDAY AFTERNOON, JANUARY 6th

1:30 P. M.

New Packages for Fruits—L. C. Carey, Marketing Specialist, Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C.

2:30 P. M.

More About Apple Roots—I. C. Haut, Associate Horticulturist, University of Maryland, College Park, Maryland.

3:30 P. M.

Why It Is Necessary to Fertilize and Lime the Cover Crop and Sod in Maryland Orchards—H. E. Klingaman, Agronomist, U. S. Soil Conservation Service, Hagerstown, Maryland.

4:30 P. M.

Inspection of Exhibits.

WEDNESDAY EVENING, JANUARY 6th

ANNUAL DINNER

6:30 P. M.

Ball Room, Hotel Alexander

Entertainment Music

THURSDAY MORNING PROGRAM ON PAGE 28

Can we be of

Assistance?

East Central Fruit Growers Production Credit Association

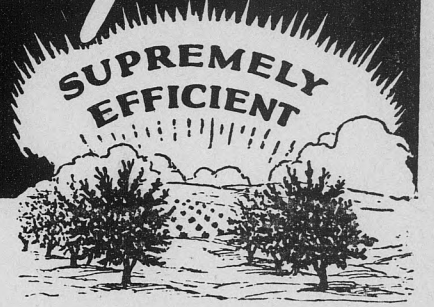
Hagerstown, Maryland

• • •

Organized for benefit of Fruit Growers in their financial production operations

"Astringent"

ARSENATE OF LEAD



ORCHARD BRAND
REG U S PAT OFF
SPRAY and DUST Materials
MADE IN U.S.A.
REG. U.S. PAT. OFF.

THE toxic effectiveness of "Astringent" Arsenate of Lead shows 15% to 20% better control than without an astringent. This is not our claim, but the observed results by thousands in every apple and pear growing district.

The natural adhesiveness of "Astringent" Arsenate of Lead is a definite advantage. Its uniform, fluffy fineness goes far to obviate sediment troubles. You get excellent coverage, fine protection, yet without any interference with the natural functioning of the leaf cells. You need healthy leaf growth to mature "Extra Fancy" fruit. You'll have both when you standardize on "Astringent" Lead Arsenate.

Dealers Everywhere

An **ORCHARD BRAND** *Product*

The Quality Brand trademark on products for every spraying need.

OIL EMULSION 83
LIME SULPHUR SOLUTION
APPLE DRITOMIC SULPHUR
DRY LIME SULPHUR
BORDEAUX MIXTURE
DRITOMIC SULPHUR
CALCIUM ARSENATE
ARSENATE OF LEAD
DUSTS OF ALL KINDS
ETC., ETC.

ORCHARD BRAND
REG U.S. PAT OFF

SPRAY *and* DUST MATERIALS

GENERAL CHEMICAL COMPANY 40 RECTOR ST., NEW YORK

District Office: 1 South Broad Street, Philadelphia, Pa.

·MECHLING'S·

Scale Oil
Stabilized Oil Emulsion

Contain Cresylic Acid

CONTROL APHIS, RED MITE AND SCALE
AT ONE SPRAYING

■ ■ ■

Also Distributors for

CALIFORNIA SPRAY-CHEMICAL CORPORATION'S
DORMANT AND SUMMER OILS

■ ■ ■

MICROSOPIC WETTABLE SULPHUR

The Perfect Summer Fungicide

■ ■ ■

MECHLING BROS· CHEMICAL CO·
CAMDEN, N·J·
Est. 1869

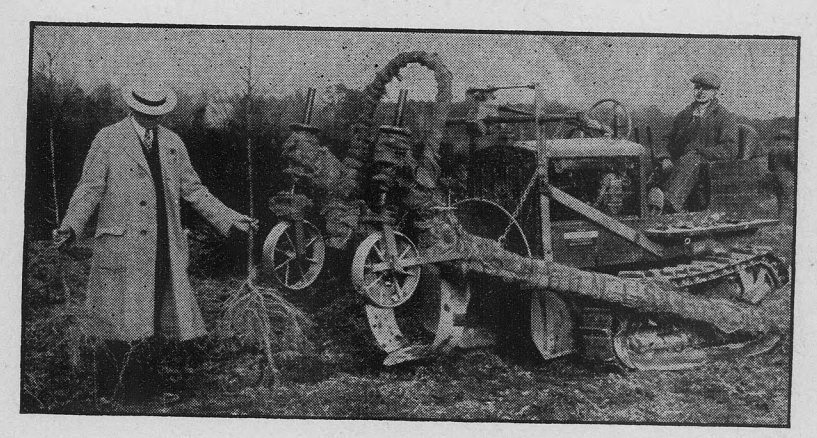
Don't Flirt With Your Profits!

Plant Buntings' Certified, Tractor-Lifted Fruit Trees.

●

Buntings' trees are—

- Certified true to name by Dr. J. K. Shaw of Massachusetts State College.
- Lifted from the ground with amply powered tractor equipment with ALL of the root systems. (see cut below.)
- The best trees your money can buy, and the prices are most reasonable.



Write for information about the new frost-proof HARDEE (plant patent No. 120), a great new development in peaches, and the new fuzzless CANDOKA, a smooth bright red peach of Hale type.

Buntings' Nurseries, Inc.

Selbyville, Delaware **Est. 1910—1,000 Acres**

FOR BETTER CONTROL OF

Codling Moth and Other Chewing Insects

. . . use . . .

GRASSELLI

Arsenate of Lead

Containing as high a percentage of killing ingredients as is possible to incorporate in an approved commercial arsenate of lead. GRASSELLI BRAND assures you of a high percentage control of codling moth. Spray with Grasselli Arsenate of Lead. Control the first brood and follow through with Grasselli Arsenate of Lead to insure yourself a maximum of clean fruit.

NuREXFORM

Arsenate of Lead

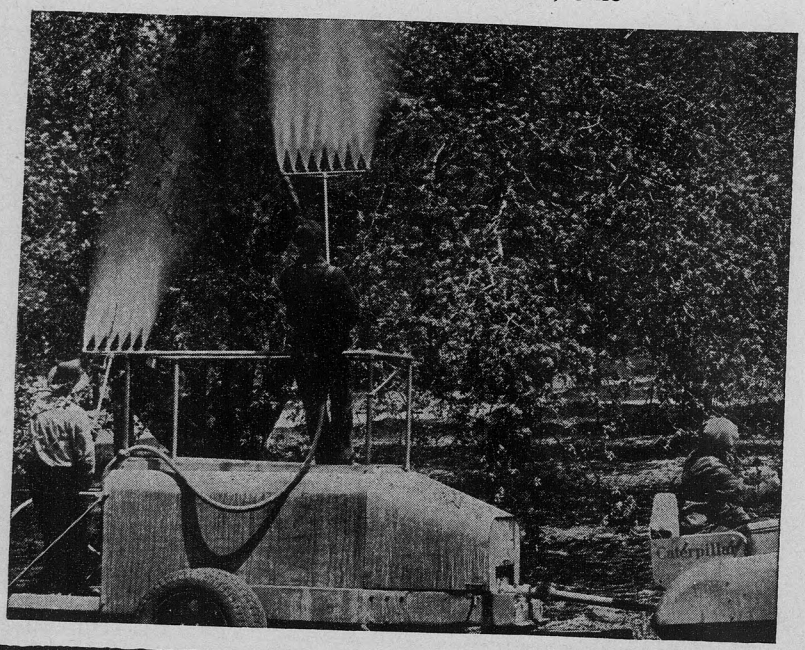
In NuRexform the reaction between Lime Sulphur and Arsenate of Lead is so definitely minimized that it stays in suspension even when used as a combination spray. Other logical reasons for NUREXFORM preference and demand are: It stays in suspension; it spreads uniformly; it leaves no gaps and it will not clog screens or nozzles.

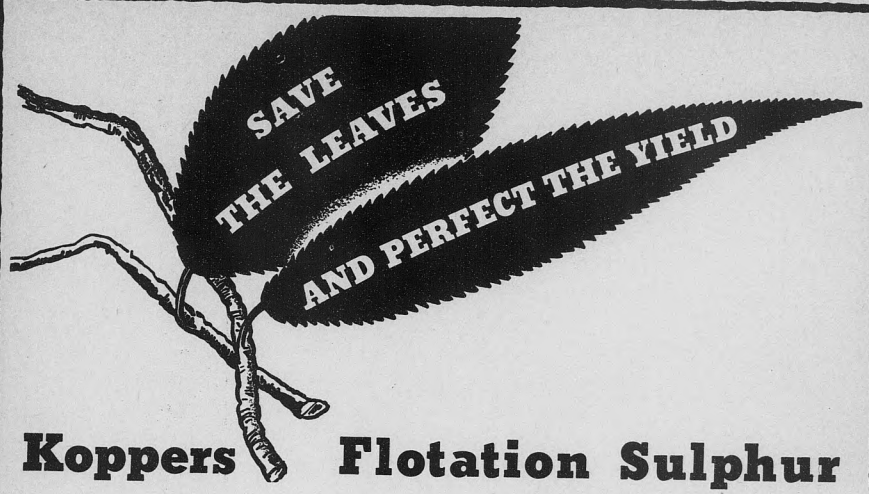
OTHER GRASSELLI PRODUCTS

Bordeaux Mixture
Calcium Arsenate
Dutox*
Lime Sulphur Solution
Loro*—a contact insecticide
Grasselli Spreader
Sulphate of Nicotine

And many others including a complete line of summer oils and dormant oils.

E. I. DU PONT DE NEMOURS & COMPANY, INC.
GRASSELLI CHEMICALS DEPARTMENT
GENERAL OFFICES: CLEVELAND, OHIO





Koppers Flotation Sulphur

Is the Fungicide that Does Both

A damaged leaf is a crippled leaf and crippled leaves cannot produce the necessary food to make a large crop of No. 1 apples or peaches.

The fungicide you choose must do more than protect apples and peaches against scab and brown rot—it must also save your leaves from damage.

Koppers Flotation Sulphur does both. Its ultra-microscopic fineness and freedom from caustic will protect without injury. Use it and assure yourself finer finish and more of the profitable No. 1 grade fruit.

The White Tar Co. of N. J., Inc.
KEARNEY, NEW JERSEY
a subsidiary of The Koppers Company

NONE GENUINE WITHOUT THIS TRADEMARK
KOPPERS
FLOTATION SULPHUR

PERFORMANCE

Not advertising claims—they are made for all spray materials—but FACTS. The fruit grower likes to deal in facts. He wants to see the PERFORMANCE. To him it's RESULTS alone that count.

We, too, like to deal in facts. We say that The House of Ansbacher has always been known as makers of highest quality materials. For nearly 100 years Ansbacher DEPENDABLE PERFORMANCE has been on the record.

The FACTS . . . The OUTSTANDING PERFORMANCES of Ansbacher materials have been in evidence in orchards near you. It will pay you to know of these growers and of their experiences. Visit your nearest Ansbacher dealer, or write for your copy of **Spraying For Results.**

■ ■ ■

Visit the Ansbacher Booth at the Horticultural Meeting . . . It Will Be Worth Your While.

Many Have Claimed It...

But -

Ansbacher Has Proved It

Ansbacher Hagerstown Chemical Corporation

HAGERSTOWN, MARYLAND

FERTILIZE FRUIT WITH THIS
QUICK-ACTING, AESY-TO-HANDLE, CLEAN, INEXPENSIVE
NITROGEN SOURCE

WHEN you buy Arcadian Sulphate of Ammonia, you get the kind of nitrogen food that *your fruit* needs—and that *you want*, too.

So far as *your fruit* is concerned, Arcadian Sulphate of Ammonia is rich in *quickly-available* nitrogen. It starts the crop off early—it doesn't leach away—it makes plenty of rich, ripe, plump, juicy fruit. And as for *you*—it's white and clean—easy to handle. *And it's inexpensive.*

There's one thing more: Arcadian Sulphate of Ammonia is made in America by the American workmen you depend on to buy your crops. When you buy *their product*, you make it possible for them to buy *your fruit*.

So—when you see your dealer about your fertilizer, remember the name—*Arcadian Sulphate of Ammonia*. You'll do well for yourself all around by using it.

ARCADIAN
REG. U. S. PAT. OFF.
SULPHATE OF AMMONIA

The Barrett Company

40 RECTOR STREET NEW YORK, N. Y.

PROGRAM—*Continued*

THURSDAY MORNING, JANUARY 7th

9:30 P. M.

Adjusting the Spray Program and Materials to Control the Codling Moth —W. S. Hough, Winchester Field Laboratory, Winchester, Virginia.

10:30 P. M.

Culture and Handling of Raspberries and Blackberries—J. H. Clark, Research Horticulturist, Rutgers University, New Brunswick, New Jersey.

11:30 A. M.

Report on the Progress of Appalachian Apples, Inc.—C. R. Miller, Secretary-Manager, Appalachian Apples, Inc., Martinsburg, West Virginia.

THURSDAY AFTERNOON PROGRAM ON PAGE 30

Before You Buy a Sprayer . . .

get the opinion of *users who have had several different makes.*

These experienced growers will tell you—

"For Simplicity and Reliability, nothing else equals a 'FRIEND'."

The "FRIEND" Sprayer has the fewest moving parts—the fewest wearing parts. There is no wear on its cylinder walls. It puts you to no expense whatever for plunger cups, crankshafts, connecting rods, wrist pins.

You'll save upkeep cost—and spraying time.

"FRIEND" MANUFACTURING CO.
GASPORT, N. Y.

"FRIEND" Sprayers

SPRAY MATERIALS

Proven by

FIELD RESEARCH

« • »

1. Tar Oil Sprays.
2. Kleenup Dormant Oil Sprays.
3. Orthol-K-Sumer Oil.
4. Coposil-Bordeaux Substitute.
5. Ortho Spreader—Buffer and Stabilizer.
6. Ortho Nicotine—for non-washing.
7. Orthex—Spray Sticker.

« • »

Visit Our Booth at

Maryland Meeting—January 5, 6, 7

CALIFORNIA SPRAY-CHEMICAL CORPORATION

ELIZABETH, N. J.

PROGRAM—*Continued*

THURSDAY AFTERNOON, JANUARY 7th

1:30 P. M.

Berry Disease Control—G. L. Zundel, Assistant Professor, Plant Pathology Extension, Pennsylvania State College, State College, Pennsylvania.

2:30 P. M.

Making the Delicious Apple Bear Profitable Crops—M. A. Blake, Head, Department of Horticulture, Rutgers University, New Brunswick, New Jersey.

3:30 P. M.

Is Mulching a Profitable Practice in the Orchard?—J. H. Gourley, Chairman, Department of Horticulture, Ohio State University, Columbus, Ohio.

ADJOURNMENT

ANNUAL MEETING

Maryland Farm Bureau Federation, Maryland Agricultural Society and Affiliated Farm Organiztions
Lord Baltimore Hotel, Baltimore
January 13, 14, 15, 1937

United Paper Company

Extends best wishes to the Maryland State Horticultural Society on their thirty-ninth annual meeting to be held at Hagerstown, Maryland, January 5th, 6th and 7th, 1937.

RAINBOW
SHREDDED OILED PAPER
RAINBOW OILED APPLE WRAPS
WHITE AND COLORED TOMATO WRAPS
PLAIN AND PRINTED

Stocks carried in all growing sections by reliable dealers.

UNITED PAPER COMPANY
MANUFACTURERS AND PRINTERS
EAU CLAIRE, WIS. TAMPA, FLORIDA NEW YORK CITY
CHICAGO, ILL. MAIN OFFICE NEW YORK

KEEP THIS PROGRAM FOR FUTURE REFERENCE

APPLE TREES NEED A BALANCED DIET

Official Evidence:

VIRGINIA:

"Those blocks in our experimental orchards that have received complete fertilizer for the past ten years are now outgrowing and outyielding other blocks. This is explained by the greater amount of organic matter produced and eventually added to the soil."

PENNSYLVANIA:

"The value of nitrogen as the sole ingredient of an orchard fertilizer has been greatly overstressed. The plots which had received a complete fertilizer are obviously superior, in growth of cover crop or sod, in vigor of trees, and in yields, to plots which have received nitrogen only."

NEW JERSEY:

"A complete fertilizer has always been recommended for tree fruits in New Jersey. For the past few years the Horticultural Department has recommended that in general apple growers consider as a basic fertilizer treatment, the annual use of 75 to 100 pounds of Muriate of Potash and 400 to 500 pounds of Superphosphate per acre, with the addition of nitrogen fertilizers according to the needs of the variety and the orchard."

When there is a deficiency of organic matter in your orchard soil, fruit spur and terminal growth is short, the bark becomes tight, the fruit does not size up, much of the fruit cracks in summer when dry spells are followed by rains, die-back or rosette appears on the terminals, more top and root injuries occur in winter and in many cases the addition of nitrogen fertilizers gives very little response.

Any rational system of orchard fertilization requires fertilization with all elements necessary to produce the best growth of cover crop. Except on soils of high natural fertility, potash and phosphoric acid to supplement the usual nitrogen application or a complete fertilizer high in potash and phosphorus are needed.

Fruit growers interested in growing better fruit by improved fertilizer practices are invited to write us for a copy of Reprint I-5, "Apple Trees Need A Balanced Diet."

American Potash Institute, Inc.

Investment Building **Washington, D. C.**

America's Finest

EFFECTIVE *and* ECONOMICAL

If you want fruit that is free from blemish and disease, buy "Magnetic Spray" and you will have efficient and economical control without the risk of injury to your trees or foliage. Year after year, "Magnetic Spray" has been used by successful growers everywhere, and its use results in premium crops of extra fancy's that command top price. "Magnetic Spray" is the purest wettable sulphur obtainable, consisting of 98.5% of the finest ventilated sulphur.

Pyrethrum-Sulphur
In ordinary Pyrethrum Dusts, clay or gypsum is used as a filler. National now offers this common-sense compound with sulphur as the carrier of this stomach poison.

Alorco Cryolite
A light, fluffy synthetic cryolite available in its original state or mixed with dusting or wettable sulphur.

Write for literature.

Rotenone-Sulphur
Rotenone is extremely effective against insects, while the sulphur acts as a fungicide, and serves to increase and prolong the insecticidal efficiency of this poison.

NATIONAL SULPHUR COMPANY

2711 Graybar Bldg., New York, N. Y.

A Division of Stauffer Chemical Company

YOURS IS A PRECIOUS CARGO

Marvil packages are designed especially for safe handling of orchard products. If you are not using them, you are not enjoying the full profit they make possible.

"Marvil Products Protect Contents"

MARVIL PACKAGE CO.
LAUREL, DELAWARE

America's Finest

EFFECTIVE *and* ECONOMICAL

If you want fruit that is free from blemish and disease, buy "Magnetic Spray" and you will have efficient and economical control without the risk of injury to your trees or foliage. Year after year, "Magnetic Spray" has been used by successful growers everywhere, and its use results in premium crops of extra fancy's that command top price. "Magnetic Spray" is the purest wettable sulphur obtainable, consisting of 98.5% of the finest ventilated sulphur.

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Marvil packages are designed especially for safe handling of orchard products. If you are not using them, you are not enjoying the full profit they make possible.

"Marvil Products Protect Contents"

MARVIL PACKAGE CO.

LAUREL, DELAWARE

What would SCALECIDE RESULTS have been worth to you this year?

SCALECIDE gives results.

SCALECIDE is more than a scale killer. It is a tree invigorator and contains distinct fungicidal properties.

SCALECIDE reduces Codling Moth population.

SCALECIDE sprayed trees show remarkable resistance to extreme cold weather. 1918 and 1934 demonstrated this.

SCALECIDE returns bigger profits from spraying. One prominent grower recently remarked, "I am willing to pay the difference in price as I have seen the difference in results."

Pear trees show remarkable response to Scalecide. Ask for "Pear Psylla Control" and "Blight Control" circulars.

Peach trees need Scalecide for leaf curl, brown rot cankers, etc.

Spray for peach borers the Scalecide-Paradichlorbenzene way. It is the most inexpensive way.

Pratt's tar oil sprays are the highest quality possible to make.

TAR-O-WASH 37-46 for dormant aphis eggs, scale, red mite and bud moth.

STRAITAR 83% for aphis eggs, etc. Also delayed dormant sprays for psylla, thrips, etc.

SPRA-CREAM the highest quality low priced oil emulsion on the market not affected by freezing.

SULFOCIDE a better summer fungicide for fruits, vegetables and flowers. Controls brown rot on cherries and peaches.

D-X the new low cost penetrating pyrethrum spray, less expensive than Nicotine for delayed dormant spray.

PRATT'S CATALYTIC SULPHUR reduces spray injury when used with Lime Sulphur or Sulfocide and Arsenate of Lead.

VISIT OUR BOOTH—IT COSTS NOTHING TO ASK PRATT

B. G. PRATT COMPANY

50 Church Street **Dept. "F"** **New York, N. Y.**